

#10108  
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1626  
Page 1 of 7



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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/889,722A

DATE: 03/27/2002  
TIME: 13:32:53

Input Set : A:\sequence listing.txt  
Output Set: N:\CRF3\03272002\I889722A.raw

4 <110> APPLICANT: Japan Science and Technology Corporation  
6 <120> TITLE OF INVENTION: Human nucleoprotein having a WW domain and  
7 a polynucleotide encoding the protein  
9 <130> FILE REFERENCE: 09/889,722  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/889,722A  
C--> 12 <141> CURRENT FILING DATE: 2001-07-20  
14 <150> PRIOR APPLICATION NUMBER: JP11-332572  
15 <151> PRIOR FILING DATE: 1999-11-24  
17 <160> NUMBER OF SEQ ID NOS: 7  
19 <170> SOFTWARE: PatentIn Ver. 2.0  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 704  
23 <212> TYPE: PRT  
24 <213> ORGANISM: Homo sapiens  
26 <400> SEQUENCE: 1  
27 Met Ala Asn Glu Asn His Gly Ser Pro Arg Glu Glu Ala Ser Leu Leu  
28 1 5 10 15  
29 Ser His Ser Pro Gly Thr Ser Asn Gln Ser Gln Pro Cys Ser Pro Lys  
30 20 25 30  
31 Pro Ile Arg Leu Val Gln Asp Leu Pro Glu Glu Leu Val His Ala Gly  
32 35 40 45  
33 Trp Glu Lys Cys Trp Ser Arg Arg Glu Asn Arg Pro Tyr Tyr Phe Asn  
34 50 55 60  
35 Arg Phe Thr Asn Gln Ser Leu Trp Glu Met Pro Val Leu Gly Gln His  
36 65 70 75 80  
37 Asp Val Ile Ser Asp Pro Leu Gly Leu Asn Ala Thr Pro Leu Pro Gln  
38 85 90 95  
39 Asp Ser Ser Leu Val Glu Thr Pro Pro Ala Glu Asn Lys Pro Arg Lys  
40 100 105 110  
41 Arg Gln Leu Ser Glu Glu Gln Pro Ser Gly Asn Gly Val Lys Lys Pro  
42 115 120 125  
43 Lys Ile Glu Ile Pro Val Thr Pro Thr Gly Gln Ser Val Pro Ser Ser  
44 130 135 140  
45 Pro Ser Ile Pro Gly Thr Pro Thr Leu Lys Met Trp Gly Thr Ser Pro  
46 145 150 155 160  
47 Glu Asp Lys Gln Gln Ala Ala Leu Leu Arg Pro Thr Glu Val Tyr Trp  
48 165 170 175  
49 Asp Leu Asp Ile Gln Thr Asn Ala Val Ile Lys His Arg Gly Pro Ser  
50 180 185 190  
51 Glu Val Leu Pro Pro His Pro Glu Val Glu Leu Leu Arg Ser Gln Leu  
52 195 200 205  
53 Ile Leu Lys Leu Arg Gln His Tyr Arg Glu Leu Cys Gln Gln Arg Glu  
54 210 215 220

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55 Gly Ile Glu Pro Pro Arg Glu Ser Phe Asn Arg Trp Met Leu Glu Arg  
56 225 230 235 240  
57 Lys Val Val Asp Lys Gly Ser Asp Pro Leu Leu Pro Ser Asn Cys Glu  
58 245 250 255  
59 Pro Val Val Ser Pro Ser Met Phe Arg Glu Ile Met Asn Asp Ile Pro  
60 260 265 270  
61 Ile Arg Leu Ser Arg Ile Lys Phe Arg Glu Glu Ala Lys Arg Leu Leu  
62 275 280 285  
63 Phe Lys Tyr Ala Glu Ala Arg Arg Leu Ile Glu Ser Arg Ser Ala  
64 290 295 300  
65 Ser Pro Asp Ser Arg Lys Val Val Lys Trp Asn Val Glu Asp Thr Phe  
66 305 310 315 320  
67 Ser Trp Leu Arg Lys Asp His Ser Ala Ser Lys Glu Asp Tyr Met Asp  
68 325 330 335  
69 Arg Leu Glu His Leu Arg Arg Gln Cys Gly Pro His Val Ser Ala Ala  
70 340 345 350  
71 Ala Lys Asp Ser Val Glu Gly Ile Cys Ser Lys Ile Tyr His Ile Ser  
72 355 360 365  
73 Leu Glu Tyr Val Lys Arg Ile Arg Glu Lys His Leu Ala Ile Leu Lys  
74 370 375 380  
75 Glu Asn Asn Ile Ser Glu Glu Val Glu Ala Pro Glu Val Glu Pro Arg  
76 385 390 395 400  
77 Leu Val Tyr Cys Tyr Pro Val Arg Leu Ala Val Ser Ala Pro Pro Met  
78 405 410 415  
79 Pro Ser Val Glu Met His Met Glu Asn Asn Val Val Cys Ile Arg Tyr  
80 420 425 430  
81 Lys Gly Glu Met Val Lys Val Ser Arg Asn Tyr Phe Ser Lys Leu Trp  
82 435 440 445  
83 Leu Leu Tyr Arg Tyr Ser Cys Ile Asp Asp Ser Ala Phe Glu Arg Phe  
84 450 455 460  
85 Leu Pro Arg Val Trp Cys Leu Leu Arg Arg Tyr Gln Met Met Phe Gly  
86 465 470 475 480  
87 Val Gly Leu Tyr Glu Gly Thr Gly Leu Gln Gly Ser Leu Pro Val His  
88 485 490 495  
89 Val Phe Glu Ala Leu His Arg Leu Phe Gly Val Ser Phe Glu Cys Phe  
90 500 505 510  
91 Ala Ser Pro Leu Asn Cys Tyr Phe Arg Gln Tyr Cys Ser Ala Phe Pro  
92 515 520 525  
93 Asp Thr Asp Gly Tyr Phe Gly Ser Arg Gly Pro Cys Leu Asp Phe Ala  
94 530 535 540  
95 Pro Leu Ser Gly Ser Phe Glu Ala Asn Pro Pro Phe Cys Glu Glu Leu  
96 545 550 555 560  
97 Met Asp Ala Met Val Ser His Phe Glu Arg Leu Leu Glu Ser Ser Pro  
98 565 570 575  
99 Glu Pro Leu Ser Phe Ile Val Phe Ile Pro Glu Trp Arg Glu Pro Pro  
100 580 585 590  
101 Thr Pro Ala Leu Thr Arg Met Glu Gln Ser Arg Phe Lys Arg His Gln  
102 595 600 605  
103 Leu Ile Leu Pro Ala Phe Glu His Glu Tyr Arg Ser Gly Ser Gln His

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104	610	615	620	
105	Ile Cys Lys Lys Glu Glu	Met His Tyr Lys Ala Val His Asn Thr Ala		
106	625	630	635	640
107	Val Leu Phe Leu Gln Asn Asp Pro Gly Phe Ala Lys Trp Ala Pro Thr			
108		645	650	655
109	Pro Glu Arg Leu Gln Glu Leu Ser Ala Ala Tyr Arg Gln Ser Gly Arg			
110		660	665	670
111	Ser His Ser Ser Gly Ser Ser Ser Ser Ser Ser	Glu Ala Lys Asp		
112		675	680	685
113	Arg Asp Ser Gly Arg Glu Gln Gly Pro Ser Arg Glu Pro His Pro Thr			
114		690	695	700

117 &lt;210&gt; SEQ ID NO: 2

118 &lt;211&gt; LENGTH: 2112

119 &lt;212&gt; TYPE: DNA

120 &lt;213&gt; ORGANISM: Homo sapiens

122 &lt;400&gt; SEQUENCE: 2

123 atggccaatg agaattcacgg cagccccccg gaggaaagcgt ccctgcttag tcactcccc 60  
 124 ggtacctcca atcagagcca gcccgttct ccaaagccaa tccgcctgggt tcaggacctc 120  
 125 ccagaggagc tggtgcatgc aggctgggag aagtgcgtt gccggagggaa gaatcgccc 180  
 126 tactacttca accgattcac caaccaggatc ctgtgggaga tgcccggtct gggcagcac 240  
 127 gatgtgattt cggacccttt gggctgaat gcgacccac tgccccaaga ctcaagcttg 300  
 128 gtggaaactc ccccgctga gaacaagccc agaaagcggc agctctcgga agagcagcca 360  
 129 agcggcaatg gtgtgaagaa gccaagattt gaaatcccag tgacaccac agggcagtgc 420  
 130 gtgcccagct ccccaagtat cccaggaacc ccaacgctga agatgtggg tacgtccct 480  
 131 gaagataaac acgaggcagc tctcctacga cccactgagg tctactggg cctggacatc 540  
 132 cagaccaatg ctgtcatcaa gcaccgggg cttcagagg tgctgcccc gcatccgaa 600  
 133 gtggaaactgc tccgctctca gtcatacctt aagttcggc agcaactatcg ggagctgtgc 660  
 134 cagcagcggagc agggcatttga gctccacgg gagtcttca accgctggat gctggagcgc 720  
 135 aagggtgttag acaaaggatc tgaccccttgg tggccagca actgtgaacc agtctgtca 780  
 136 cttccatgt ttcgtgaaat catgaacgac attctatca gtttatccc aatcaagttc 840  
 137 cgggaggaag ccaagcgctt gctctttaa tatgcggagg cgcgcaggcg gctcatcgag 900  
 138 tccaggagtg catcccttga cagtaggaag gtggtaaat ggaatgtggaa agacacctt 960  
 139 agctggcttc ggaaggacca ctcagccttc aaggaggact acatggatcg cttggagcat 1020  
 140 ctgcggaggc agtgtggccc ccacgtctcg gccgcagcca aggactccgt ggaaggcattc 1080  
 141 tgcagtaaga tctaccacat ctccctggag tacgtcaaac ggatccgaga gaagcacatt 1140  
 142 gccatcctca aggaaacaa catctcagag gaggtggagg cccctgaggt ggagccccgc 1200  
 143 ctatgttact gctaccatgt ccggctggcgt gtgtctgcac cggccatgcc cagcgtggag 1260  
 144 atgcacatgg agaacaacgt ggtctgcac cggatataagg gagagatggt caaggtcagc 1320  
 145 cgcacatact tcagcaagct gtggctcctt taccgttaca gctgcattga tgactctgcc 1380  
 146 ttggagatgtt tcctggcccg ggtctgggtt cttctccgac ggtaccatgt gatgttcggc 1440  
 147 gtggcccttc acgaggggac tggcctgcag ggatcgctgc ctgtgcattgt ctttgaggcc 1500  
 148 ctccaccgacat tctttggcgt cagttcggag tgcttcgcct cacccttcaa ctgtacttc 1560  
 149 cgccagttact gttctgcctt ccccgacaca gacggctact ttggctccc cggccctgc 1620  
 150 cttagactttt ctccactgag tggttcattt gaggccaaacc ctcccttctg cgaggagctc 1680  
 151 atggatgcca tggctctca ctttggagaga ctgttgcata gtcacccggc gcccctgtcc 1740  
 152 ttcatctgtt tcataccatgtt gttggggaa ccccaacac cagcgctcac cgcgcattgg 1800  
 153 cagagccgt tcaaacgcca ccaggatc ctgcctgcct ttggatgttgc gtaccgcagt 1860  
 154 ggtcccaatgtt acatctgcaaa gaaggaggaa atgcactaca aggccgttca caacacggct 1920  
 155 gtgtcttcc tacagaacga ccctggctt gccaatgtgg cggccacgcc tgaacggctg 1980

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156 caggagctga gtgctgccta ccggcagtca ggccgcagcc acagctctgg ttcttcctca 2040  
 157 tcgtcctccct cggaggccaa ggaccgggac tcggggcgtg agcagggtcc tagccgcgag 2100  
 158 cctcaccccc 2112  
 161 <210> SEQ ID NO: 3  
 162 <211> LENGTH: 2669  
 163 <212> TYPE: DNA  
 164 <213> ORGANISM: Homo sapiens  
 166 <220> FEATURE:  
 167 <221> NAME/KEY: CDS  
 168 <222> LOCATION: (292)..(2406)  
 170 <400> SEQUENCE: 3  
 171 acacaagatg gcggcagcgg cgctggggag ggcgaggcgg aggcggcaaa acgggcggtc 60  
 172 gaggcagaacg tggtagcccg tccccctccag tccgcctccgg gcagctgtc atgcaaggaa 120  
 173 tccccctgggc tcccgtccac tccactgctg accagcccat tcgcctgtgc tgagtcttcc 180  
 174 tgcaggcctt tccttgcctc tggggaccc tgggggtc catccggctg gagaagaaaa 240  
 175 gcctctcatg ctaacgttgc agacccaga gggtcctgtg tgggtgtgga g atg gcc 297  
 176 Met Ala  
 177 1  
 178 aat gag aat cac ggc agc ccc cgg gag gaa ggc tcc ctg ctg agt cac 345  
 179 Asn Glu Asn His Gly Ser Pro Arg Glu Glu Ala Ser Leu Leu Ser His  
 180 5 10 15  
 181 tcc cca ggt acc tcc aat cag agc cag ccc tgt tct cca aag cca atc 393  
 182 Ser Pro Gly Thr Ser Asn Gln Ser Gln Pro Cys Ser Pro Lys Pro Ile  
 183 20 25 30  
 184 cgc ctg gtt cag gac ctc cca gag gag ctg gtg cat gca ggc tgg gag 441  
 185 Arg Leu Val Gln Asp Leu Pro Glu Glu Leu Val His Ala Gly Trp Glu  
 186 35 40 45 50  
 187 aag tgc tgg agc cgg agg gag aat cgt ccc tac tac ttc aac cga ttc 489  
 188 Lys Cys Trp Ser Arg Arg Glu Asn Arg Pro Tyr Tyr Phe Asn Arg Phe  
 189 55 60 65  
 190 acc aac cag tcc ctg tgg gag atg ccc gtg ctg ggg cag cac gat gtg 537  
 191 Thr Asn Gln Ser Leu Trp Glu Met Pro Val Leu Gly Gln His Asp Val  
 192 70 75 80  
 193 att tcg gac cct ttg ggg ctg aat ggc acc cca ctg ccc caa gac tca 585  
 194 Ile Ser Asp Pro Leu Gly Leu Asn Ala Thr Pro Leu Pro Gln Asp Ser  
 195 85 90 95  
 196 agc ttg gtg gaa act ccc ccg gct gag aac aag ccc aga aag cgg cag 633  
 197 Ser Leu Val Glu Thr Pro Pro Ala Glu Asn Lys Pro Arg Lys Arg Gln  
 198 100 105 110  
 199 ctc tcg gaa gag cag cca agc ggc aat ggt gtg aag aag ccc aag att 681  
 200 Leu Ser Glu Glu Gln Pro Ser Gly Asn Gly Val Lys Lys Pro Lys Ile  
 201 115 120 125 130  
 202 gaa atc cca gtg aca ccc aca ggc cag tcg gtg ccc agc tcc ccc agt 729  
 203 Glu Ile Pro Val Thr Pro Thr Gly Gln Ser Val Pro Ser Ser Pro Ser  
 204 135 140 145  
 205 atc cca gga acc cca acg ctg aag atg tgg ggt acg tcc cct gaa gat 777  
 206 Ile Pro Gly Thr Pro Thr Leu Lys Met Trp Gly Thr Ser Pro Glu Asp  
 207 150 155 160  
 208 aaa cag cag gca gct ctc cta cga ccc act gag gtc tac tgg gac ctg 825

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209	Lys	Gln	Gln	Ala	Ala	Leu	Leu	Arg	Pro	Thr	Glu	Val	Tyr	Trp	Asp	Leu	
210	165					170							175				
211	gac	atc	cag	acc	aat	gct	gtc	atc	aag	cac	cgg	ggg	cct	tca	gag	gtg	873
212	Asp	Ile	Gln	Thr	Asn	Ala	Val	Ile	Lys	His	Arg	Gly	Pro	Ser	Glu	Val	
213	180					185						190					
214	ctg	ccc	ccg	cat	ccc	gaa	gtg	gaa	ctg	ctc	cgc	tct	cag	ctc	atc	ctg	921
215	Leu	Pro	Pro	His	Pro	Glu	Val	Glu	Leu	Leu	Arg	Ser	Gln	Leu	Ile	Leu	
216	195					200					205				210		
217	aag	ctt	cg	cag	cac	tat	cg	gag	ctg	tgc	cag	cag	cga	gag	ggc	att	969
218	Lys	Leu	Arg	Gln	His	Tyr	Arg	Glu	Leu	Cys	Gln	Gln	Arg	Glu	Gly	Ile	
219						215					220				225		
220	gag	cct	cca	cg	gag	tct	ttc	aac	cgc	tgg	atg	ctg	gag	cgc	aag	gtg	1017
221	Glu	Pro	Pro	Arg	Glu	Ser	Phe	Asn	Arg	Trp	Met	Leu	Glu	Arg	Lys	Val	
222						230					235				240		
223	gta	gac	aaa	gga	tct	gac	ccc	ctg	ttg	ccc	agc	aac	tgt	gaa	cca	gtc	1065
224	Val	Asp	Lys	Gly	Ser	Asp	Pro	Leu	Leu	Pro	Ser	Asn	Cys	Glu	Pro	Val	
225						245					250				255		
226	gtg	tca	cct	tcc	atg	ttt	cgt	gaa	atc	atg	aac	gac	att	cct	atc	agg	1113
227	Val	Ser	Pro	Ser	Met	Phe	Arg	Glu	Ile	Met	Asn	Asp	Ile	Pro	Ile	Arg	
228						260					265				270		
229	tta	tcc	cga	atc	aag	ttc	cg	gag	gaa	gcc	aag	cgc	ctg	ctc	ttt	aaa	1161
230	Leu	Ser	Arg	Ile	Lys	Phe	Arg	Glu	Glu	Ala	Lys	Arg	Leu	Leu	Phe	Lys	
231						275					280				285		
232	tat	g	c	g	g	g	g	g	g	tcc	agg	agt	gca	tcc	cct	1209	
233	Tyr	Ala	Glu	Ala	Arg	Arg	Leu	Ile	Glu	Ser	Arg	Ser	Ala	Ser	Pro		
234						295					300				305		
235	gac	agt	agg	aag	gtg	gtc	aaa	tgg	aat	gtg	gaa	gac	acc	ttt	agc	tgg	1257
236	Asp	Ser	Arg	Lys	Val	Val	Lys	Trp	Asn	Val	Glu	Asp	Thr	Phe	Ser	Trp	
237						310					315				320		
238	ctt	cg	aag	gac	cac	tca	gcc	tcc	aag	gag	gac	tac	atg	gat	cgc	ctg	1305
239	Leu	Arg	Lys	Asp	His	Ser	Ala	Ser	Lys	Glu	Asp	Tyr	Met	Asp	Arg	Leu	
240						325					330				335		
241	gag	cat	ctg	cg	agg	cag	tgt	ggc	ccc	cac	gtc	tcg	gcc	gca	gcc	aag	1353
242	Glu	His	Leu	Arg	Arg	Gln	Cys	Gly	Pro	His	Val	Ser	Ala	Ala	Lys		
243						340					345				350		
244	gac	tcc	gtg	gaa	ggc	atc	tgc	agt	aag	atc	tac	cac	atc	tcc	ctg	gag	1401
245	Asp	Ser	Val	Glu	Gly	Ile	Cys	Ser	Lys	Ile	Tyr	His	Ile	Ser	Leu	Glu	
246						355					360				365		
247	tac	gtc	aaa	cg	atc	cga	gag	aag	cac	ctt	gcc	atc	ctc	aag	gaa	aac	1449
248	Tyr	Val	Lys	Arg	Ile	Arg	Glu	Lys	His	Leu	Ala	Ile	Leu	Lys	Glu	Asn	
249						375					380				385		
250	aac	atc	tca	gag	gag	gtg	gag	gcc	cct	gag	gtg	gag	ccc	cgc	cta	gtg	1497
251	Asn	Ile	Ser	Glu	Glu	Val	Glu	Ala	Pro	Glu	Val	Glu	Pro	Arg	Leu	Val	
252						390					395				400		
253	tac	tgc	tac	cca	gtc	cg	ctg	gct	gtg	tct	gca	ccg	ccc	atg	ccc	agc	1545
254	Tyr	Cys	Tyr	Pro	Val	Arg	Leu	Ala	Val	Ser	Ala	Pro	Pro	Met	Pro	Ser	
255						405					410				415		
256	gtg	gag	atg	cac	atg	gag	aac	aac	gtg	gtc	tgc	atc	cg	tat	aag	gga	1593
257	Val	Glu	Met	His	Met	Glu	Asn	Asn	Val	Val	Cys	Ile	Arg	Tyr	Lys	Gly	

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date